

DT04 Rec'd PCT/PTO 29 OCT 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Klaus Cichutek et al. Art Unit : Unknown
Serial No. : 10/089,278 Examiner : Unknown
Filed : March 26, 2002
Title : GENE TRANSFER IN HUMAN LYMPHOCYTES USING RETROVIRAL
SCFV CELL TARGETING

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the attached form PTO-1449.

This statement is being filed before the receipt of a first Office action on the merits.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: October 29, 2003

Andrew W. Torrance
Andrew W. Torrance, Ph.D., J.D.
Reg. No. 51,108

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

20746748.doc

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV331653495US

October 29, 2003
Date of Deposit

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 11692-006US1	Application No. 10/089,278
	Applicant Klaus Cichutek et al.		
	Filing Date March 26, 2002	Group Art Unit	

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AA	WO 96/36360	11/21/1996	WIPO				
	AB	WO 98/51787	11/19/1998	WIPO				
	AC	DE 197 52 854 A1	7/1/1999	Germany				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AD	Anderson, "Human Gene Therapy", <i>Science</i> , Vol. 256:808-813 (1992)
	AE	Chang et al., "Block of HIV-1 infection by a combination of antisense tat RNA and TAR decoys: a strategy for control of HIV-1", <i>Gene Therapy</i> , Vol. 1:208-216 (1994)
	AF	Chu et al., "Toward Highly Efficient Cell-Type-Specific Gene Transfer with Retroviral Vectors Displaying Single-Chain Antibodies", <i>J. Virol.</i> , Vol. 71:720-725 (1997)
	AG	Chu et al., "Cell targeting with retroviral vector particles containing antibody-envelope fusion proteins", <i>Gene Therapy</i> , Vol. 1:292-299 (1994)
	AH	Cosset et al., "Retroviral Retargeting by Envelopes Expressing an N-Terminal Binding Domain", <i>J. Virol.</i> , Vol. 69:6314-6322 (1995)
	AI	Duan et al., "Intracellular Immunization Against HIV-1 Infection of Human T Lymphocytes: Utility of Anti-Rev Single-Chain Variable Fragments", <i>Human Gene Therapy</i> , Vol. 6:1561-1573 (1995)
	AJ	Dornburg, "Reticuloendotheliosis viruses and derived vectors", <i>Gene Therapy</i> , Vol. 2:301-310 (1995)
	AK	Engelstadter et al., "Targeting Human T Cells by Retroviral Vectors Displaying Antibody Domains Selected from a Phage Display Library", <i>Human Gene Therapy</i> , Vol. 11:293-303 (2000)
	AL	Huston et al., "Protein Engineering of Single-Chain Fv Analogs and Fusion Proteins", <i>Methods in Enzymology</i> , Vol. 203:46-88 (1991)
	AM	Jiang et al., "Cell-Type-Specific Gene Transfer into Human Cells with Retroviral Vectors That Display Single-Chain Antibodies", <i>J. Virol.</i> , Vol. 72:10148-10156 (1998)
	AN	Kasahara et al., "Tissue-Specific Targeting of Retroviral Vectors Through Ligand-Receptor Interactions", <i>Science</i> , Vol. 266:1373-1375 (1994)
	AO	Leavitt et al., "Ex vivo transduction and expansion of CD4 ⁺ lymphocytes from HIV + donors: prelude to a ribozyme gene therapy trial", <i>Gene Therapy</i> , Vol. 3:599-606 (1996)
	AP	Levy-Mintz et al., "Intracellular Expression of Single-Chain Variable Fragments To Inhibit Early Stages of the Viral Life Cycle by Targeting Human Immunodeficiency Virus Type 1 Integrase", <i>J. Virol.</i> , Vol. 70:8821-8832 (1996)
	AQ	Macchi et al., "Mutations of Jak-3 gene in patients with autosomal severe combined immune deficiency (SCID)", <i>Nature</i> Vol. 377:65-68 (1995)
	AR	Martinez et al., "Improved Retroviral Packaging Lines Derived from Spleen Necrosis Virus", <i>Virology</i> , Vol. 208:234-241 (1995)
	AS	Martinez et al., "Mapping of Receptor Binding Domains in the Envelope Protein of Spleen Necrosis Virus", <i>J. Virol.</i> Vol. 69:4339-4346 (1995)
	AT	Mikawa et al., "In Vivo Analysis of a New <i>lacZ</i> Retrovirus Vector Suitable for Cell Lineage Marking in Avian and Other Species", <i>Exp. Cell Res.</i> , Vol. 195:516-523 (1991)
Examiner Signature		Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 11692-006US1	Application No. 10/089,278
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Klaus Cichutek et al.	
		Filing Date March 26, 2002	Group Art Unit
(37 CFR §1.98(b))			

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AU	Morgan et al., "Analysis of the Functional and Host Range-Determining Regions of the Murine Exotropic and Amphotropic Retrovirus Envelope Proteins", <i>J. of Virol.</i> , Vol. 67:4712-4721 (1993)
	AV	Ramenzani et al., "Inhibition of HIV-1 replication by retroviral vectors expressing monomeric and multimeric hammerhead ribozymes", <i>Gene Therapy</i> , Vol. 4:861-867 (1997)
	AW	Russell et al., "Retroviral vectors displaying functional antibody fragments", <i>Nucleic Acids Res.</i> , Vol. 21:1081-1085 (1993)
	AX	Schnierle et al., "Pseudotyping of murine leukemia virus with the envelope glycoproteins of HIV generates a retroviral vector with specificity of infection for CD4-expressing cells", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94:8640-8645 (1997)
	AY	Smith et al., "Transient protection of human T-cells from human immunodeficiency virus type 1 infection by transduction with adeno-associated viral vectors which express RNA decoys", <i>Antiviral Research</i> , Vol. 32:99-115 (1996)
	AZ	Watanabe et al., "Construction of a Helper Cell Line for Avian Reticuloendotheliosis Virus Cloning Vectors", <i>Mol. Cell Biol.</i> , Vol. 3:2241-2249 (1983)
	AAA	Weiss, "Cellular Receptors and Viral Glycoproteins Involved in Retrovirus Entry", <i>The Retroviridae</i> Vol. 2:1-108 (1993)
	ABB	Whitlow et al., "Single-Chain Fv Proteins and Their Fusion Proteins", <i>Methods: A Companion to Methods Enzymol.</i> , Vol. 2:97-105 (1991)
	ACC	Yu et al., "Gene Therapy for Metastatic Brain Tumors by Vaccination with Granulocyte-Macrophage Colony-Stimulating Factor-Transduced Tumor Cells", <i>Human Gene Therapy</i> , Vol. 8:1065-1072 (1997)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	